

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A process for producing acrylic acid, comprising the steps of: applying a dehydration reaction to glycerol as a raw material in a gas phase; and then applying a gas phase oxidation reaction to a gaseous reaction product formed by the dehydration reaction.

2. (previously presented) The process for producing acrylic acid according to claim 1, wherein the glycerol is subjected to the dehydration reaction in the form of an aqueous glycerol solution having a water content of not more than 50% by weight.

3. (previously presented) The process for producing acrylic acid according to claim 1 or 2, wherein the dehydration reaction and the gas phase oxidation reaction are conducted in a tandem-type reactor.

4. (previously presented) The process for producing acrylic acid according to claim 3, wherein oxygen is added to a gas which is transferred from the dehydration reaction to the gas phase oxidation reaction.

5. (previously presented) The process for producing acrylic acid according to claim 1 or 2, wherein the dehydration reaction and the gas phase oxidation reaction are conducted in a single-type reactor.